

ADCYAP1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5668b**Specification**

ADCYAP1 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [P18509](#)
Other Accession [NP_001093203.1](#)

ADCYAP1 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 116

Other Names

Pituitary adenylate cyclase-activating polypeptide, PACAP, PACAP-related peptide, PRP-48, Pituitary adenylate cyclase-activating polypeptide 27, PACAP-27, PACAP27, Pituitary adenylate cyclase-activating polypeptide 38, PACAP-38, PACAP38, ADCYAP1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ADCYAP1 Antibody (C-term) Blocking peptide - Protein Information

Name ADCYAP1 ([HGNC:241](#))

Function

PACAP is a neuropeptide involved in diverse array of physiological processes through activating the PACAP subfamily of class B1 G protein-coupled receptors: VIP receptor 1 (VIPR1), VIP receptor 2 (VIPR2), and PACAP type I receptor (ADCYAP1R1) (PubMed:11175907, PubMed:23800469, PubMed:32047270, PubMed:36385145). Exerts neuroprotective and general cytoprotective effects due to anti- apoptotic, anti-inflammatory, and antioxidant actions (PubMed:23800469). Promotes neuron projection development through the RAPGEF2/Rap1/B-Raf/ERK pathway (PubMed:23800469). In chromaffin cells, induces long-lasting increase of intracellular calcium concentrations and neuroendocrine secretion (By similarity). Involved in the control of glucose homeostasis, induces insulin secretion by pancreatic beta cells (By similarity). PACAP exists in two bioactive forms from proteolysis of the same precursor protein, PACAP27 and

PACAP38, which differ by eleven amino acid residues in the C-terminus (PubMed:32047270).

Cellular Location

Secreted.

ADCYAP1 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

ADCYAP1 Antibody (C-term) Blocking peptide - Images

ADCYAP1 Antibody (C-term) Blocking peptide - Background

ADCYAP1 is adenylate cyclase activating polypeptide1. Mediated by adenylate cyclase activating polypeptide 1 receptors, this polypeptide stimulates adenylate cyclase and subsequently increases the cAMP level in target cells. Adenylate cyclase activating polypeptide 1 is not only a hypophysiotropic hormone, but also functions as a neurotransmitter and neuromodulator. In addition, it plays a role in paracrine and autocrine regulation of certain types of cells. This gene encodes three different mature peptides, including two isoforms, a shorter form and a longer form.

ADCYAP1 Antibody (C-term) Blocking peptide - References

Hosoya, M., et al. Biochim. Biophys. Acta 1129(2):199-206(1992) Ohkubo, S., et al. DNA Cell Biol. 11(1):21-30(1992) Kimura, C., et al. Biochem. Biophys. Res. Commun. 166(1):81-89(1990)